

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 06324293  
PUBLICATION DATE : 25-11-94

APPLICATION DATE : 17-05-93  
APPLICATION NUMBER : 05139545

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INT.CL. : G02C 7/10 G02B 1/04

TITLE : SPECTACLE LENS

ABSTRACT : PURPOSE: To obtain a spectacle lens capable of selectively preventing the transmission of IR, UV and blue light.

CONSTITUTION: This spectacle lens has a means for controlling the transmission of IR, contains a UV absorbent such as a benzophenone compd. and a blue light absorbent such as an yellow dye and transmits the visible light in at least 450-750nm wavelength region, and the average light transmittance in 450-750nm is controlled to  $\geq 5\%$ . An IR absorbent such as a dithiol-nickel complex can be added as a means for controlling the transmission of IR. The average light transmittance in the 200-400nm wavelength region and that in the 780-950nm wavelength region are controlled to  $< \text{about } 0.3\%$ , the average light transmittance in the 400-440nm wavelength region to  $< \text{about } 3.5\%$  and the average light transmittance in the 450-730nm wavelength region to  $\geq \text{about } 10\%$ . A sharp and stereoscopic field is obtained by this spectacle lens, and the eye is not hurt by the harmful light even if the lens is used in the extremely strong sunlight, and a weak-sighted person wears the spectacles.

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